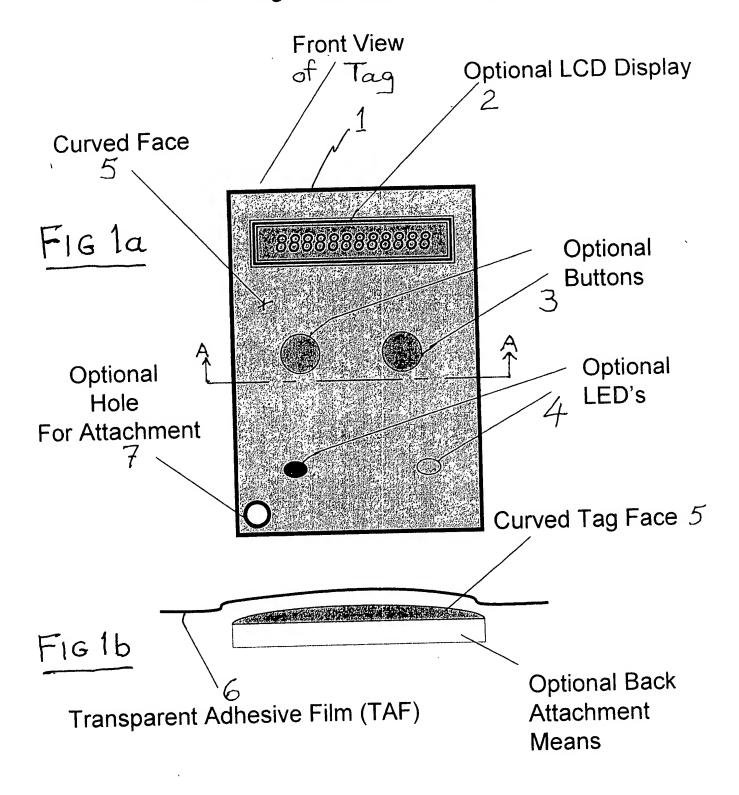
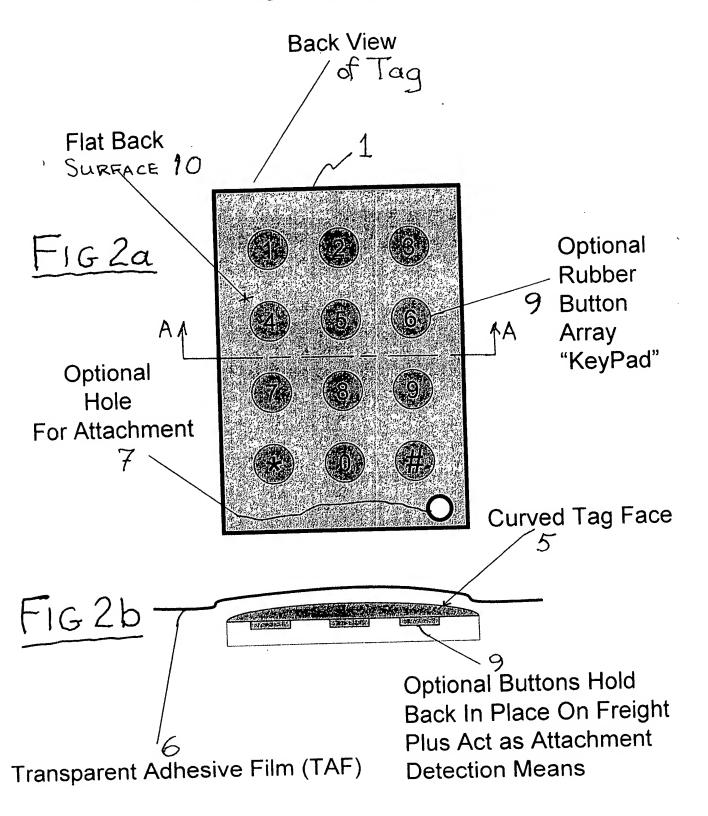
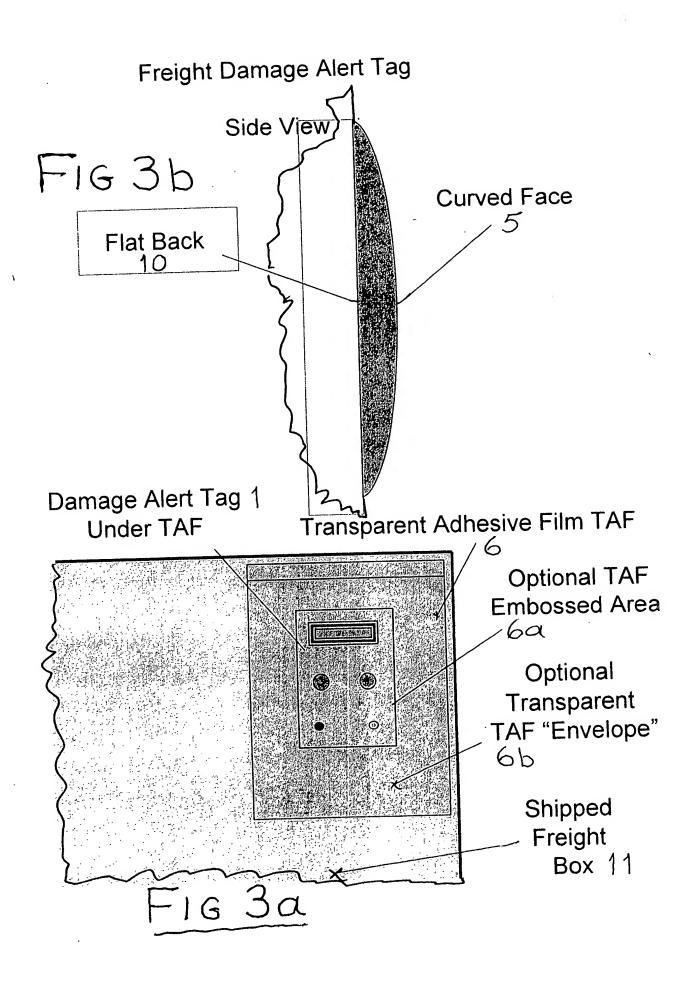
RF Freight Damage Alert Tag



RF Freight Damage Alert Tag





Freight Damage Alert Tag Block Diagram

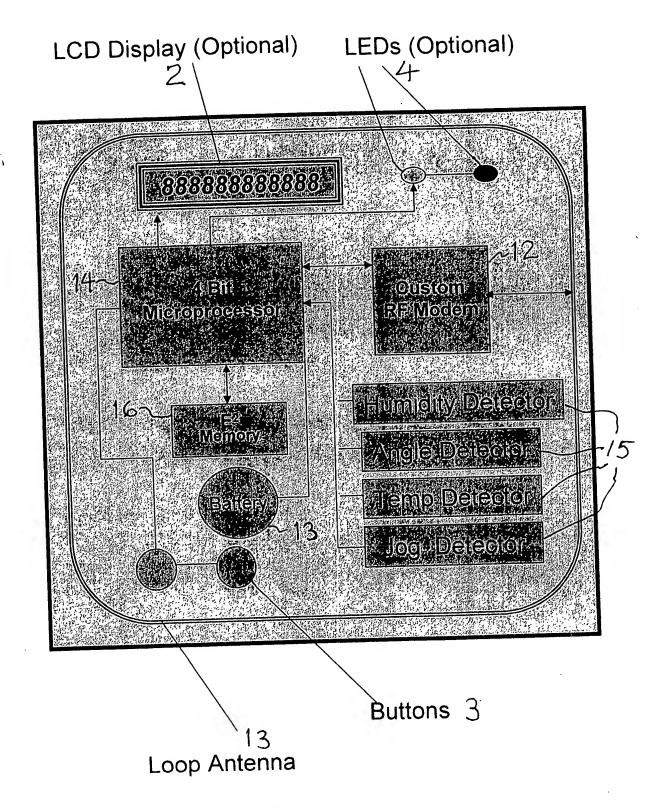


Figure 4

Warehouse Network of Tags Placed on Freight Full Two Way Rx/Tx Loop Antenna (Placed On 18 Base Station Warehouse Ceiling Shelves or Floor) Warehouse Server **IP Address**

Figure 5

Warehouse Network of Tags 1 Placed on Freight 11

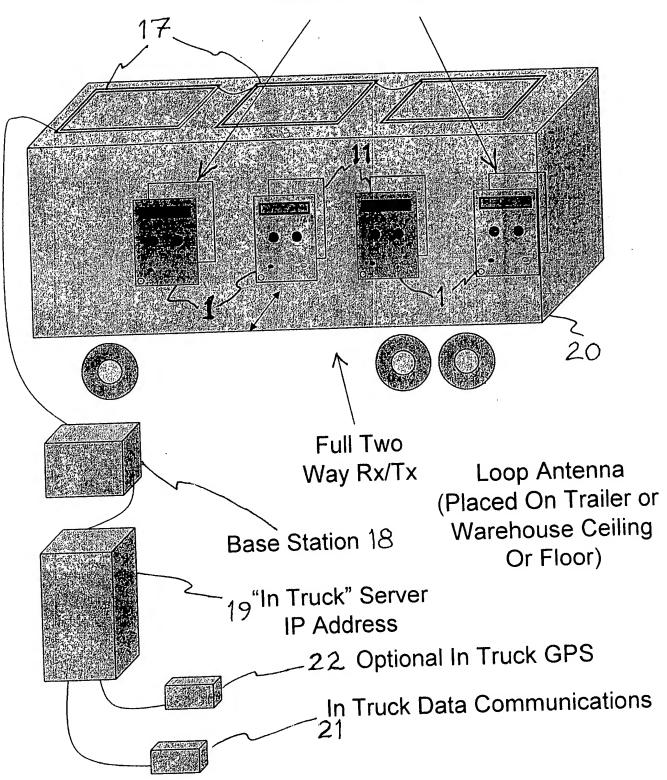


Figure 6

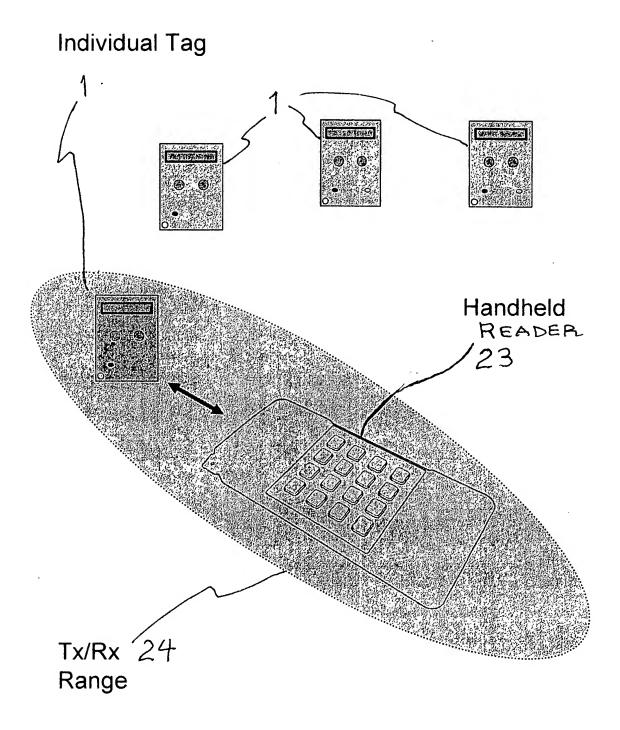


Figure 7

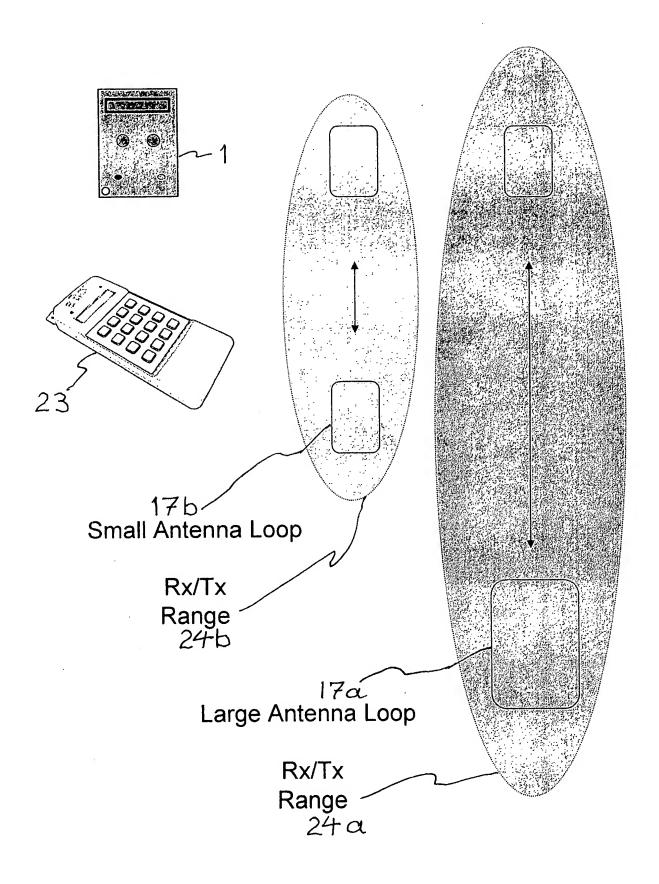
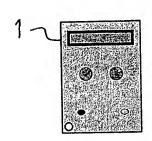


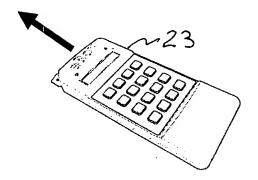
Figure 8



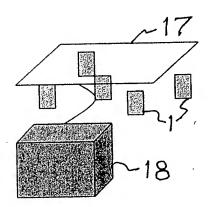
Step 1
Handheld Reads
Way Bill Barcode
Or ID in Warehouse



Step 2
Tag Placed On Freight +
Function + ID
Programmed
Via Handheld



Step 3
Handheld Transfers
Data
To Server (Hardline or Loop Modem)



Step 4
Server + Base Station
Interrogates Tags Via
Base Station
Confirms ID + Status
In Truck + Warehouse

Figure 9

Tag Functions and Features

- 1. Internal Transaction Data Log (Reads Writes + GPS)
- 2. Internal Temp Data Log (one month @ 1/hr)
- 3. Internal Humidity Data Log (one month @ 1/hr)
- 4. Internal Tilt Data Log (Events Log as needed)
- 5. Internal Jog Data Log (Events Log as needed)
- 6. Paperless Electronic Waybill
- 7. Automatic Freight Sort Based on Electronic Waybill
- 8. Real Time Freight Tracking (Trucks + Warehouse)
- 9. Real Time Truck Manifest
- 10. Real Time Data Logs
- 11. Real Time Web Enabled Reports ("8 -"11").
- 12. Pick/Put Sorts of Freight (LED based)
- 13. Low Cost Tags (4 micron CMOS IC's)
- 14. Low Power Extended Battery Life (15 years)
- 15 Low Cost Handhelds
- 16. Network of Tags within Loop
- 17. Individual Tag Reads and Writes (e.g. Conveyor)
- 18. Fully Programmable ID
- 19 No Fixed ID Required
- 20. Tags Secure On Package Using TAF
- 21. Tags "Retrievable" upon Delivery
- 22. Tags "Reusable" 100,000 or more transactions.